


31. (New) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:

- 
- (a) a protein consisting of amino acid residues 1 to 303 of SEQ ID NO:2;
 - (b) a protein consisting of amino acid residues 2 to 303 of SEQ ID NO:2;
 - (c) a protein consisting of a portion of SEQ ID NO:2, wherein said portion comprises at least 30 contiguous amino acid residues of SEQ ID NO:2;
 - (d) a protein consisting of a portion of SEQ ID NO:2, wherein said portion comprises at least 50 contiguous amino acid residues of SEQ ID NO:2;
 - (e) a protein consisting of amino acid residues 1 to 277 of SEQ ID NO:4;
 - (f) a protein consisting of amino acid residues 2 to 277 of SEQ ID NO:4;
 - (g) a protein consisting of a portion of SEQ ID NO:4, wherein said portion comprises at least 30 contiguous amino acid residues of SEQ ID NO:4; and
 - (h) a protein consisting of a portion of SEQ ID NO:4, wherein said portion comprises at least 50 contiguous amino acid residues of SEQ ID NO:4.

32. (New) The antibody or fragment thereof of claim 31 that specifically binds protein (a).

33. (New) The antibody or fragment thereof of claim 31 that specifically binds protein (b).

34. (New) The antibody or fragment thereof of claim 31 that specifically binds protein (c).

35. (New) The antibody or fragment thereof of claim 31 that specifically binds protein (d).

36. (New) The antibody or fragment thereof of claim 31 that specifically binds protein (e).

37. (New) The antibody or fragment thereof of claim 31 that specifically binds protein (f).

38. (New) The antibody or fragment thereof of claim 31 that specifically binds protein (g).

39. (New) The antibody or fragment thereof of claim 31 that specifically binds protein (h).

40. (New) The antibody or fragment thereof of claim 32 that specifically binds protein (b).


41. (New) The antibody or fragment thereof of claim 36 that specifically binds protein (f).

42. (New) The antibody or fragment thereof of claim 31 which is a human antibody.

43. (New) The antibody or fragment thereof of claim 31 which is a polyclonal antibody.

44. (New) The antibody or fragment thereof of claim 31 which is a monoclonal antibody.

45. (New) The antibody or fragment thereof of claim 31 which is selected from the group consisting of:

- 
- (a) a chimeric antibody;
 - (b) a humanized antibody;
 - (c) a single chain antibody; and
 - (d) an Fab fragment.

46. (New) The antibody or fragment thereof of claim 31 which is labeled.

47. (New) The antibody or fragment thereof of claim 46 wherein the label is an enzyme.

48. (New) The antibody or fragment thereof of claim 31 wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.

49. (New) An isolated cell that produces the antibody or fragment thereof of claim 31.

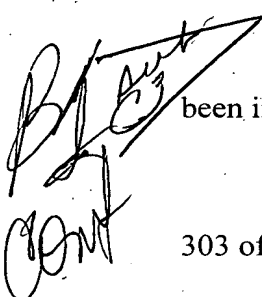
50. (New) A hybridoma that produces the antibody or fragment thereof of claim 31.

51. (New) A method of detecting an ICE-LAP 3 or 4 protein in a biological sample comprising:

(a) contacting the biological sample with the antibody or fragment thereof of claim 31; and

(b) detecting the ICE-LAP 3 or 4 protein in the biological sample.

52. (New) The method of claim 51 wherein the antibody or fragment thereof is a polyclonal antibody.

 53. (New) An isolated antibody or fragment thereof obtained from an animal that has been immunized with a protein selected from the group consisting of:

(a) a protein comprising the amino acid sequence of amino acid residues 1 to 303 of SEQ ID NO:2;

(b) a protein comprising the amino acid sequence of amino acid residues 2 to 303 of SEQ ID NO:2;

(c) a protein comprising an amino acid sequence consisting of at least 30 contiguous amino acid residues of SEQ ID NO:2;

(d) a protein comprising an amino acid sequence consisting of at least 50 contiguous amino acid residues of SEQ ID NO:2;

(e) a protein comprising the amino acid sequence of amino acid residues 1 to 277 of SEQ ID NO:4;

(f) a protein comprising the amino acid sequence of amino acid residues 2 to 277 of SEQ ID NO:4;

(g) a protein comprising an amino acid sequence consisting of at least 30 contiguous amino acid residues of SEQ ID NO:4; and

(h) a protein comprising an amino acid sequence consisting of at least 50 contiguous amino acid residues of SEQ ID NO:4;

03 wherein said antibody or fragment thereof specifically binds to said amino acid sequence.

54. (New) The antibody or fragment thereof of claim 53 obtained from an animal immunized with protein (a).

55. (New) The antibody or fragment thereof of claim 53 obtained from an animal immunized with protein (b).

56. (New) The antibody or fragment thereof of claim 53 obtained from an animal immunized with protein (c).

57. (New) The antibody or fragment thereof of claim 53 obtained from an animal immunized with protein (d).

58. (New) The antibody or fragment thereof of claim 53 obtained from an animal immunized with protein (e).

59. (New) The antibody or fragment thereof of claim 53 obtained from an animal immunized with protein (f).

60. (New) The antibody or fragment thereof of claim 53 obtained from an animal immunized with protein (g).

61. (New) The antibody or fragment thereof of claim 53 obtained from an animal immunized with protein (h).

62. (New) The antibody or fragment thereof of claim 53 which is a monoclonal antibody.

63. (New) The antibody or fragment thereof of claim 53 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and
- (e) an Fab fragment.

64. (New) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:

- (a) a protein consisting of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;
- (b) a protein consisting of the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;
- (c) a protein consisting of a portion of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875, wherein said portion comprises at least 30 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;
- (d) a protein consisting of a portion of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875, wherein said portion comprises at least 50 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;

(e) a protein consisting of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873;

(f) a protein consisting of the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873;

(g) a protein consisting of a portion of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873, wherein said portion comprises at least 30 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873; and

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(h) a protein consisting of a portion of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873, wherein said portion comprises at least 50 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873.

65. (New) The antibody or fragment thereof of claim 64 that specifically binds protein (a).

66. (New) The antibody or fragment thereof of claim 64 that specifically binds protein (b).

67. (New) The antibody or fragment thereof of claim 64 that specifically binds protein (c).

68. (New) The antibody or fragment thereof of claim 64 that specifically binds protein (d).

69. (New) The antibody or fragment thereof of claim 64 that specifically binds protein (e).

70. (New) The antibody or fragment thereof of claim 64 that specifically binds protein (f).

71. (New) The antibody or fragment thereof of claim 64 that specifically binds protein (g).

72. (New) The antibody or fragment thereof of claim 64 that specifically binds protein (h).

73. (New) The antibody or fragment thereof of claim 65 that specifically binds protein (b).

74. (New) The antibody or fragment thereof of claim 69 that specifically binds protein (f).

75. (New) The antibody or fragment thereof of claim 64 which is a human antibody.

76. (New) The antibody or fragment thereof of claim 64 which is a polyclonal antibody.

77. (New) The antibody or fragment thereof of claim 64 which is a monoclonal antibody.

78. (New) The antibody or fragment thereof of claim 64 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a humanized antibody;
- (c) a single chain antibody; and
- (d) an Fab fragment.

79. (New) The antibody or fragment thereof of claim 64 which is labeled.

80. (New) The antibody or fragment thereof of claim 79 wherein the label is an enzyme.

81. (New) The antibody or fragment thereof of claim 64 wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.

82. (New) An isolated cell that produces the antibody or fragment thereof of claim 64.

83. (New) A hybridoma that produces the antibody or fragment thereof of claim 64.

84. (New) A method of detecting ICE-LAP 3 or 4 protein in a biological sample comprising:

- (a) contacting the biological sample with the antibody or fragment thereof of claim 64; and
- (b) detecting the ICE-LAP 3 or 4 protein in the biological sample.

85. (New) The method of claim 84 wherein the antibody or fragment thereof is a polyclonal antibody.

86. (New) The method of claim 84 wherein the antibody or fragment thereof is a monoclonal antibody.

Part C2
87. (New) An isolated antibody or fragment thereof obtained from an animal that has been immunized with a protein selected from the group consisting of:

- (a) a protein comprising the amino acid sequence of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;
- (b) a protein comprising the amino acid sequence of the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;
- (c) a protein comprising an amino acid sequence consisting of at least 30 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;
- (d) a protein comprising an amino acid sequence consisting of at least 50 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;
- (e) a protein comprising the amino acid sequence of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873;
- (f) a protein comprising the amino acid sequence of the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873;
- (g) a protein comprising an amino acid sequence consisting of at least 30 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873; and

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(h) a protein comprising an amino acid sequence consisting of at least 50 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873;
wherein said antibody or fragment thereof specifically binds to said amino acid sequence.

88. (New) The antibody or fragment thereof of claim 87 obtained from an animal immunized with protein (a).

89. (New) The antibody or fragment thereof of claim 87 obtained from an animal immunized with protein (b).

90. (New) The antibody or fragment thereof of claim 87 obtained from an animal immunized with protein (c).

91. (New) The antibody or fragment thereof of claim 87 obtained from an animal immunized with protein (d).

92. (New) The antibody or fragment thereof of claim 87 obtained from an animal immunized with protein (e).

93. (New) The antibody or fragment thereof of claim 87 obtained from an animal immunized with protein (f).

94. (New) The antibody or fragment thereof of claim 87 obtained from an animal immunized with protein (g).

95. (New) The antibody or fragment thereof of claim 87 obtained from an animal immunized with protein (h).

96. (New) The antibody or fragment thereof of claim 87 which is a monoclonal antibody.

97. (New) The antibody or fragment thereof of claim 87 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and
- (e) an Fab fragment.

98. (New) An isolated antibody or fragment thereof that specifically binds an ICE-LAP 3 protein purified from a cell culture wherein said ICE-LAP 3 protein is encoded by a polynucleotide encoding amino acids 1 to 303 of SEQ ID NO:2 operably associated with a regulatory sequence that controls the expression of said polynucleotide.

99. (New) The antibody or fragment thereof of claim 98 which is a monoclonal antibody.

100. (New) The antibody or fragment thereof of claim 98 which is a human antibody.

101. (New) The antibody or fragment thereof of claim 98 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;

- (d) a single chain antibody; and
- (e) an Fab fragment.

102. (New) The antibody or fragment thereof of claim 98 wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.

103. (New) An isolated antibody or fragment thereof that specifically binds an ICE-LAP 4 protein purified from a cell culture wherein said ICE-LAP 4 protein is encoded by a polynucleotide encoding amino acids 1 to 277 of SEQ ID NO:4 operably associated with a regulatory sequence that controls the expression of said polynucleotide.

104. (New) The antibody or fragment thereof of claim 103 which is a monoclonal antibody.

105. (New) The antibody or fragment thereof of claim 103 which is a human antibody.

106. (New) The antibody or fragment thereof of claim 103 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and
- (e) an Fab fragment.

107. (New) The antibody or fragment thereof of claim 103 wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.